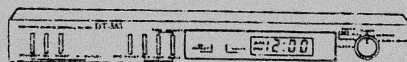


# Service Manual



**PIONEER**  
The future of sound and vision.



**ORDER NO.  
ARP1566**

**AUDIO DIGITAL TIMER**

# DT-555

**MODEL DT-555 COMES IN TWO VERSIONS DISTINGUISHED AS FOLLOWS:**

| Type | Power requirement                  | Destination        |
|------|------------------------------------|--------------------|
| NEM  | AC220V only                        | European continent |
| S/G  | AC110V,120V,220V,240V (switchable) | U.S.Military       |

- This service manual is applicable to the NEM and S/G types.

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## 1. SPECIFICATIONS

Time display ..... Digital display with fluorescent display tube  
 Timer type ..... 24-hour type (AM/PM, 12-hour display)  
 Timer setting ..... Only one ON/OFF time setting in minimum units of minutes within a 24-hour period  
 Sleep timer ..... Setting in minimum units of minutes up to 1 hour 59 minutes  
 Time accuracy ..... Synchronized with line frequency  
 Timer accuracy ..... Within + 0.1 sec. of time displayed  
 Sleep timer accuracy ..... Within - 59 sec. of set time

### Power section, others

Power requirements  
 ..... AC110V/120V/220V/240V (switchable)  
 ..... 50Hz/60Hz (switchable)  
 AC outlets: Total of 2 outlets ..... 1200W max.  
 Power consumption ..... 6W

### Other functions

- AC OUTLET "on" display (red LED lights)
- Timer operation display (green LED lights)
- Power failure display (time display winks)

Dimensions ..... 420 (W) x 52 (H) x 144 (D) mm

16-9/16 (W) x 2-1/16 (H) x 5-11/16 (D) in

Weight ..... 1.7 kg (3 lb 12 oz)

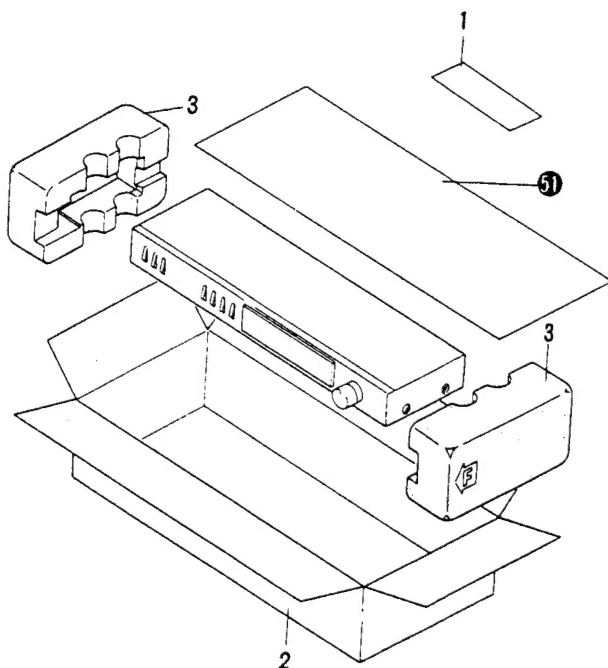
### Accessories

Operating Instructions ..... 1

#### NOTE:

Specifications and design are subject to possible modification without notice due to improvements.

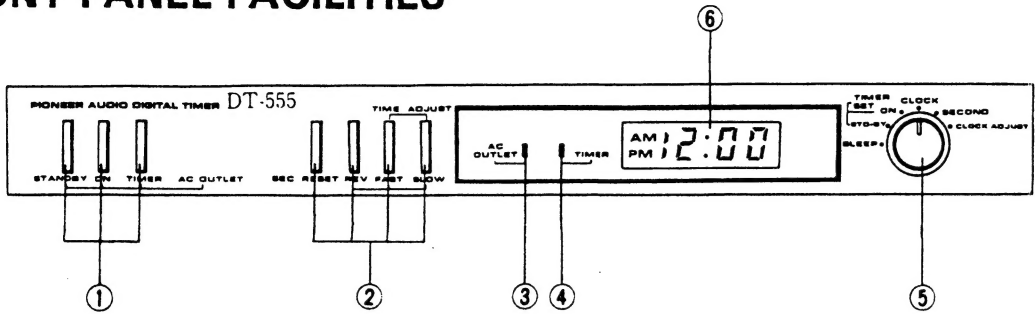
## 2. PACKING



### Parts List

| Mark | No. | Parts No. | Description           |
|------|-----|-----------|-----------------------|
|      | 1   | ARE1090   | Operating Instruction |
|      | 2   | ADH1478   | Packing case          |
|      | 3   | AHA-258   | Slide pad             |
|      | 51  |           | Sheet                 |

3. FRONT PANEL FACILITIES



① AC OUTLET SELECTORS

These switch on and off the power flowing to the rear panel AC outlets.

**STAND-BY:** Used to switch off the power of the connected audio components regardless of the timer operation (set times).

**ON:** Used to switch on the power of the connected audio components regardless of the timer operation (set times).

**TIMER:** Used to switch ON and OFF the power of the connected audio components with the timer operation.

② TIME ADJUST SWITCHES

These are used to adjust the time/displayed times in line with the setting of the mode selector.

**SEC RESET:** When this switch is depressed with the mode selector in the SECOND position, the second display of the present time is reset to 00 and when released the seconds are counted up from 00 → 01 → 02 → etc., and the rightmost minute digit and seconds are displayed.

**REV:** When the FAST or SLOW switch is depressed while this switch is in the depressed position, the displayed time is reversed rapidly or slowly. (This function does not work when the sleep timer function is set.)

**FAST:** When this switch is depressed, the displayed time is forwarded rapidly.

**SLOW:** When this switch is depressed, the displayed time is forwarded slowly.

③ AC OUTLET INDICATOR (red)

This lights when power is being supplied to the AC OUTLETS on the rear panel.

④ TIMER INDICATOR (green)

This lights when the AC OUTLET-TIMER selector is depressed.

⑤ MODE SELECTOR

This is used to select the timer's function.

**SLEEP:** Used to set the operating time (1 minute to 1 hour 59 minutes) until the power of the audio components operating is to be set OFF.

**TIMER SET-STD-BY:** Used to set the time at which the power to the connected audio components is turned OFF.

**TIMER SET-ON:** Used to set the time at which the power to the connected audio component is turned ON.

**CLOCK:** Used to display the present time (hours & minutes).

**SECOND:** Used to adjust the seconds of the present time and check the seconds of the present time.

**CLOCK ADJUST:** Used to adjust the clock to the present time.

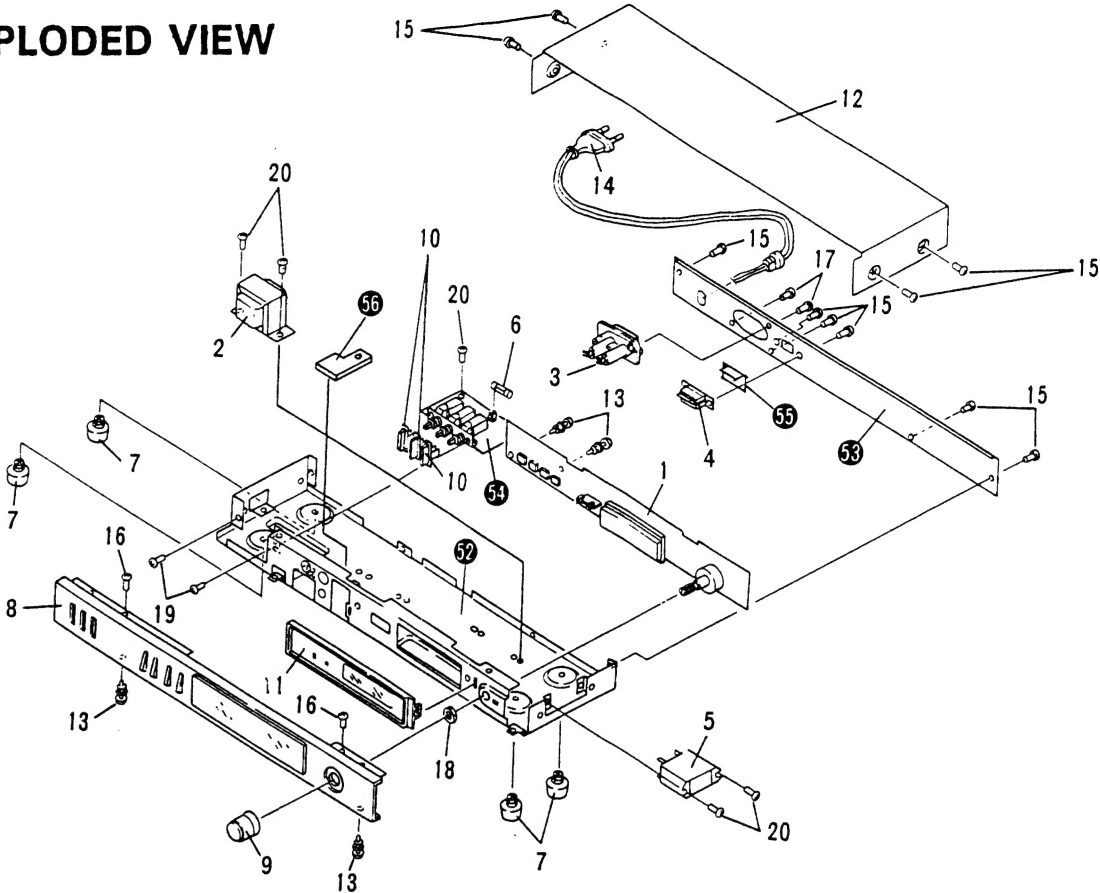
⑥ TIME DISPLAY

The time is displayed as it relates to the mode selector or TIME ADJUST switch settings in the following table.

| Mode selector    | TIME ADJUST switch | Display   | Example of display        |
|------------------|--------------------|---|---------------------------|
| SLEEP            | FAST               | Time until sleep operation is due to go OFF.                  | 1:30                      |
|                  | SLOW               |   | 1 hr 30 min.              |
| TIMER SET-STD-BY | FAST SLOW REV      | Display of OFF time set by timer.                             | AM 8:00                   |
| TIMER SET-ON     | FAST SLOW REV      | Display of ON time set by timer                               | AM 7:30                   |
| CLOCK            | —                  | Display of present time                                       | PM 5:38                   |
| SECOND           | —                  | Display of seconds and rightmost digit of present time minute | 8:25<br>8 min.<br>25 sec. |
|                  | SEC RESET          | Display for adjusting seconds correctly of present time       | 5:00<br>5 min.<br>00 sec. |
| CLOCK ADJUST     | FAST SLOW REV      | Display for adjusting hours and minutes of present time       | PM 12:05                  |

**NOTE:**  
When the unit's power plug is connected to a household AC outlet, the "AM 12:00" or "0:00" time display will wink. It also winks when there has been a power failure while the unit was working and the power has been restored.

4. EXPLODED VIEW



**NOTES:**

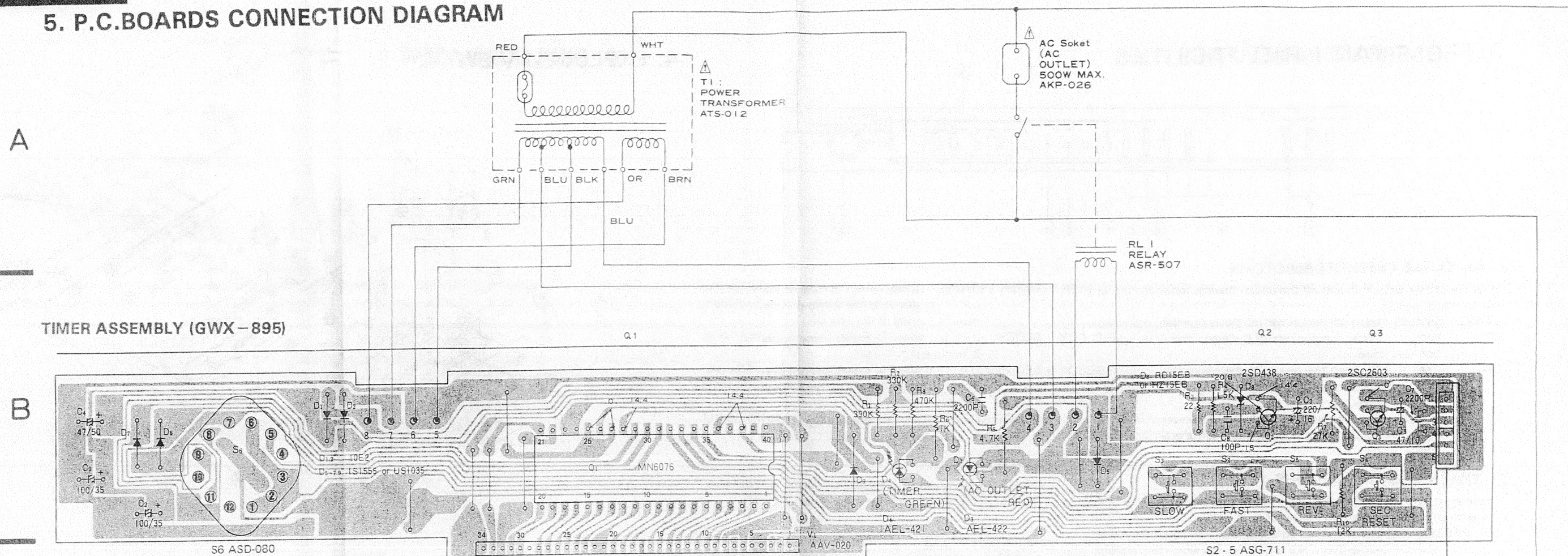
- Parts without part number cannot be supplied.
- The  $\Delta$  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- For your parts Stock Control, the fast moving items are indicated with the marks  $\star\star$  and  $\star$ .  
 $\star\star$  GENERALLY MOVES FASTER THAN  $\star$   
This classification shall be adjusted by each distributor because it depends on model number, temperature, humidity, etc.
- Parts marked by "◎" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

Parts List

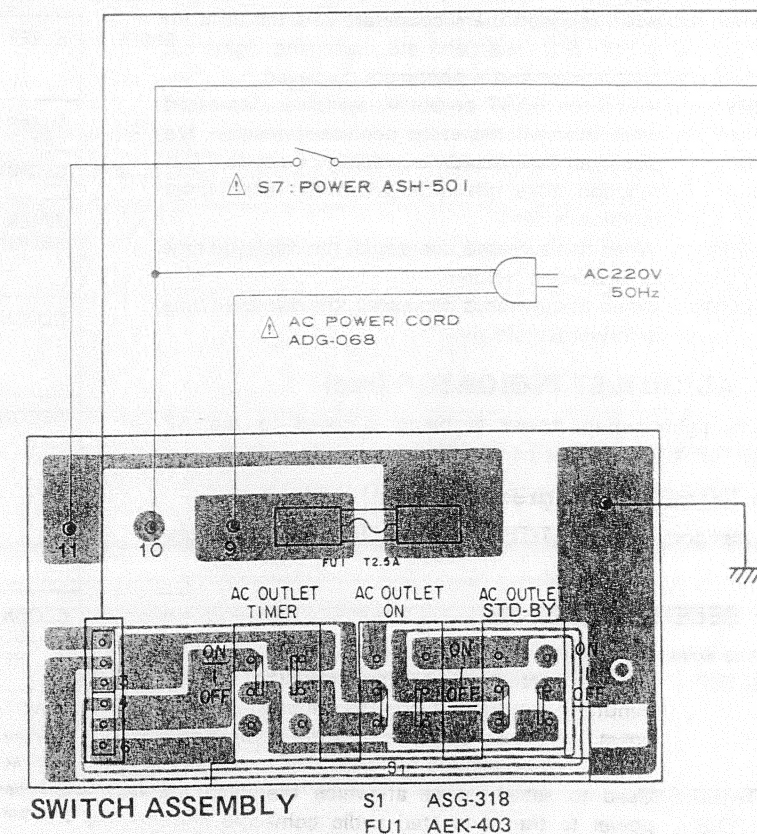
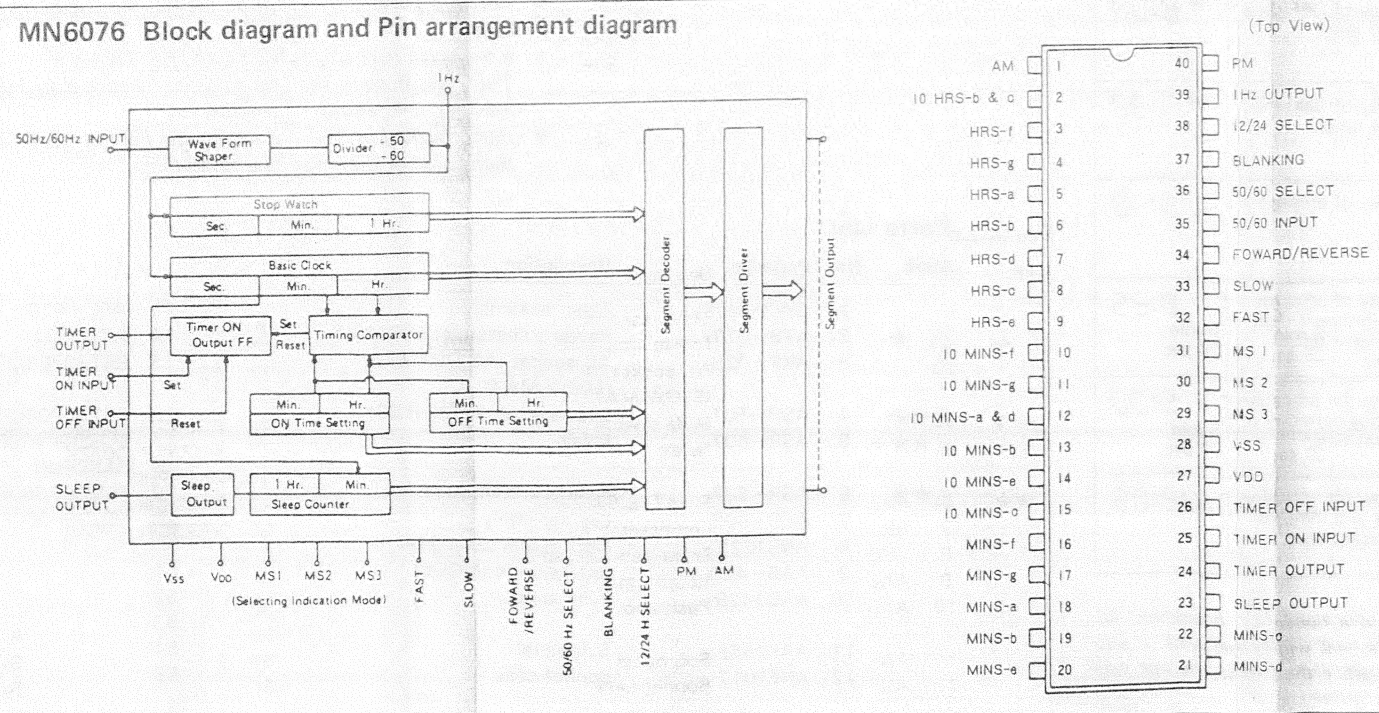
| Mark                  | No. | Parts No. | Description                      |    |                       |
|-----------------------|-----|-----------|----------------------------------|----|-----------------------|
|                       | 1   | GWX-895   | Timer assembly                   | 13 | AEC-510 Nylon rivet   |
| $\Delta$ $\star$      | 2   | ATS-012   | Power transformer (AC220V)       | 14 | ADG1021 AC power cord |
| $\Delta$              | 3   | AKP-026   | AC socket (AC OUTLET) (500W MAX) | 15 | BBT30P080FZK Screw    |
| $\Delta$ $\star\star$ | 4   | ASH-501   | Slide switch (POWER S7)          | 16 | BCZ30P080FMC Screw    |
| $\Delta$ $\star\star$ | 5   | ASR-507   | Relay                            | 17 | MTZ30P100FZK Screw    |
| $\Delta$ $\star\star$ | 6   | ASR-507   | Fuse (T2.5A/250V)                | 18 | NK90FUC Nut           |
|                       | 7   | AEC-903   | Leg assembly                     | 19 | PMZ30P060FZB Screw    |
|                       | 8   | ANB1223   | Front panel assembly             | 20 | VBZ30P060FMC Screw    |
|                       | 9   | AAB-420   | Rotary knob (MODE)               | 51 | .....                 |
|                       | 10  | AAD1429   | Push knob                        | 52 | Chassis               |
|                       | 11  | AAK1552   | Sub panel                        | 53 | Real panel            |
|                       | 12  | ANE1017   | Bonnet case                      | 54 | Switch assembly       |
|                       |     |           |                                  | 55 | Switch spacer         |
|                       |     |           |                                  | 56 | Insulation sheet      |



### 5. P.C.BOARDS CONNECTION DIAGRAM



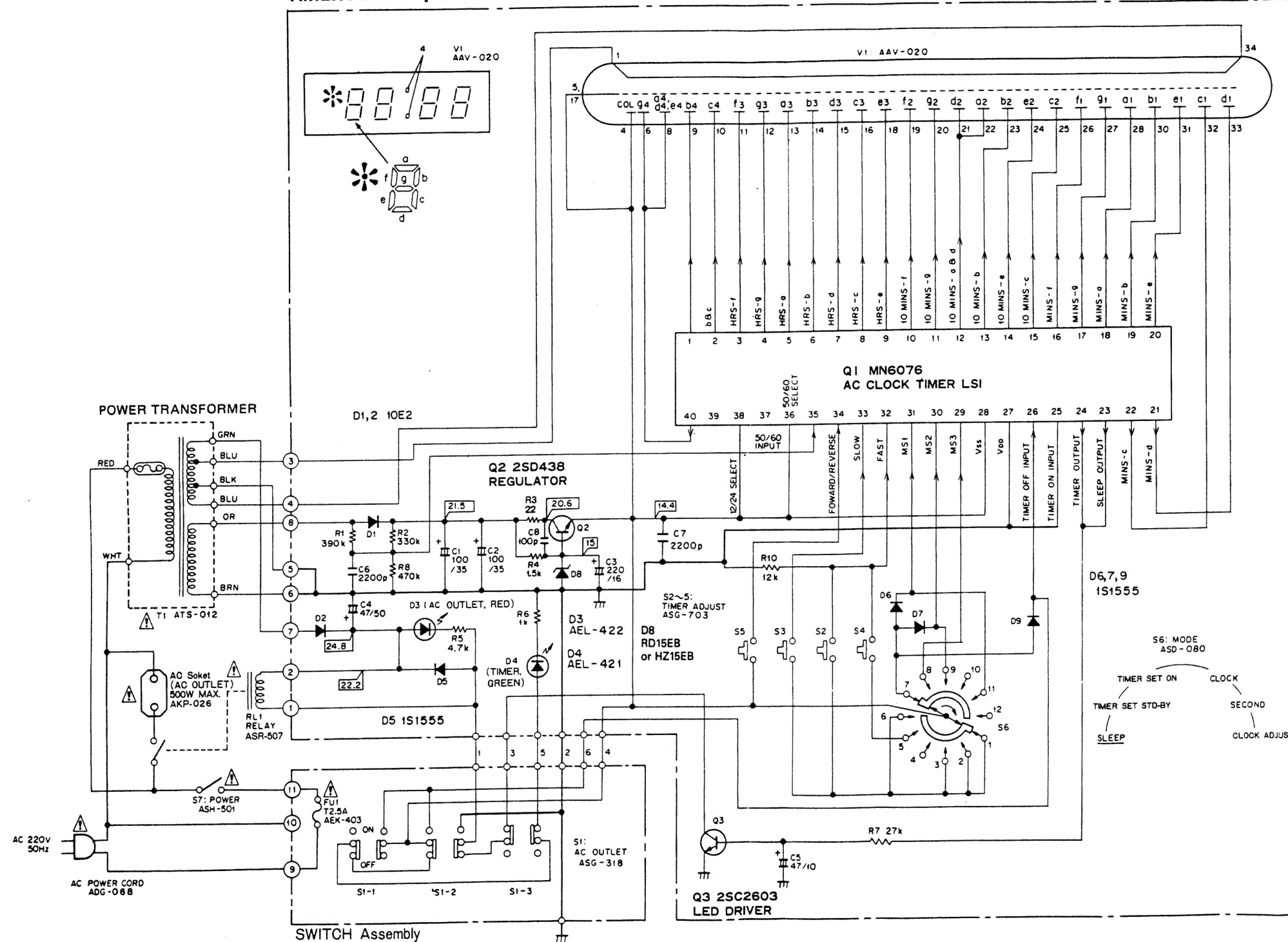
**MN6076** Block diagram and Pin arrangement diagram






## 6. SCHEMATIC DIAGRAM


## TIMER Assembly (GWX-895)



1. RESISTORS:  
Indicated in  $\Omega$ ,  $\frac{1}{2}W$ ,  $\pm 5\%$  tolerance unless otherwise noted k : k $\Omega$ ,  
M : M $\Omega$ , (F) :  $\pm 1\%$ , (G) :  $\pm 2\%$ , (K) :  $\pm 10\%$  tolerance

2. CAPACITORS:  
Indicated in capacity ( $\mu$ F)/voltage (V) unless otherwise noted p : pF  
Indication without voltage is 50V except electrolytic capacitor.

3. VOLTAGE  
 : DC voltage (V) at TIMER, RELAY ON.  
 Value in ( ) is DC voltage at AC OUTLET OFF.

4. OTHERS:  
The  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

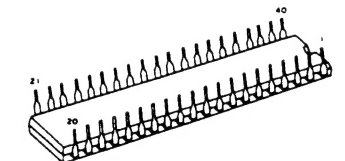
- SWITCHES:
- S1-1 : AC OUTLET (STAND-BY) ON - OFF
- S1-2 : AC OUTLET (ON) ON - OFF
- S1-3 : AC OUTLET (TIMER) ON - OFF
- S2 : TIME ADJUST (FAST) ON - OFF
- S3 : TIME ADJUST (SLOW) ON - OFF
- S4 : TIME ADJUST (SEC RESET) ON - OFF
- S5 : TIME ADJUST (REV) ON - OFF
- S6 : MODE
- SLEEP - TIMER SET STD-BY-TIMER SET ON-
- CLOCK - SECOND - CLOCK ADJUST
- S7 : POWER ON - OFF

The underlined indicates the switch position.

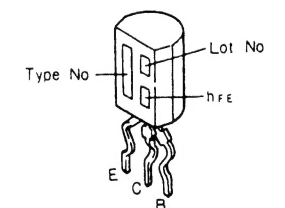
This is the basic schematic diagram, but the actual circuit may vary due to improvements in design.

## Appearance of Transistors and ICs

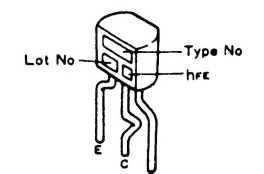
MN6076



2SD438/A/



2SC2603/A/



7. ELECTRICAL PARTS LIST

NOTES:

- Parts without part number cannot be supplied.
- Parts marked by "⊙" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.
- The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- For your parts Stock Control, the fast moving items are indicated with the marks ★★ and ★.
- ★★ **GENERALLY MOVES FASTER THAN ★**
- This classification shall be adjusted by each distributor because it depends on model number, temperature, humidity, etc.
- When ordering resistors, first convert resistance values into code form as shown in the following examples.

Ex. 1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%).

|      |                      |          |         |   |   |   |
|------|----------------------|----------|---------|---|---|---|
| 560Ω | 56 × 10 <sup>1</sup> | 561..... | RD1/4PS | ⊙ | ⊙ | J |
| 47kΩ | 47 × 10 <sup>3</sup> | 473..... | RD1/4PS | ⊙ | ⊙ | J |
| 0.5Ω | 0R5.....             |          | RN2H    | ⊙ | ⊙ | K |
| 1Ω   | 010.....             |          | RSIP    | ⊙ | ⊙ | K |

Ex. 2 When there are 3 effective digits (such as in high precision metal film resistors).

|        |                       |           |         |   |   |   |   |
|--------|-----------------------|-----------|---------|---|---|---|---|
| 5.62kΩ | 562 × 10 <sup>1</sup> | 5621..... | RN1/4SR | ⊙ | ⊙ | ⊙ | F |
|--------|-----------------------|-----------|---------|---|---|---|---|

MISCELLANEOUS PARTS

P.C.BOARD ASSEMBLIES

| Mark | Symbol & Description | Part No. |
|------|----------------------|----------|
|      | Timer assembly       | GWX-895  |
|      | Switch assembly      |          |

OTHERS

| Mark | Symbol & Description          | Part No. |
|------|-------------------------------|----------|
| Δ★★  | RL1 Relay (AC OUTLET)         | ASR-507  |
| Δ    | AC power cord                 | ADG-068  |
| Δ★   | T1 Power transformer (AC220V) | ATS-012  |
| Δ★★  | S7 Slide switch (POWER)       | ASH-501  |
|      | AC socket (AC OUTLET)         | AKP-026  |
| Δ★★  | FU1 Fuse (T2.5A/250V)         | AEK-403  |

TIMER ASSEMBLY (GWX-895)

SEMICONDUCTORS

| Mark | Symbol & Description   | Part No.           |
|------|------------------------|--------------------|
| ★★   | Q1                     | MN6076             |
| ★★   | Q2                     | 2SD438             |
| ★★   | Q3                     | 2SC2603            |
| ★    | D1,D2                  | 10E2               |
| ★    | D5-D7,D9               | 1S1555<br>(US1035) |
| ★    | D8                     | RD15EB<br>(HZ15EB) |
| ★    | D3 LED (AC OUTLET,LED) | AEL-422            |
| ★    | D4 LED (TIMER,GREEN)   | AEL-421            |

SWITCHES

| Mark | Symbol & Description   | Part No. |
|------|--|----------|
| ★★   | S2-S5 Tact switch<br>(TIME ADJUST, ADJUST, SEC,<br>RESET, REV) | ASG-711  |
| ★★   | S6 Rotary switch<br>(MODE SELECTOR)                            | ASD-080  |

CAPACITORS

| Mark | Symbol & Description | Part No.    |
|------|----------------------|-------------|
|      | C1,C2                | CEA101M35L  |
|      | C3                   | CEA221M16L  |
|      | C5                   | CEA470M10L  |
|      | C4                   | CEA470M50L  |
|      | C6,C7                | CKDYB222K50 |
|      | C8                   | CCDSL101J50 |

RESISTORS

| Mark | Symbol & Description | Part No.      |
|------|----------------------|---------------|
|      | R3                   | RD1/4PMFL220J |
|      | Other resistors      | RD1/4PM□□□J   |

OTHERS

| Mark | Symbol & Description | Part No. |
|------|----------------------|----------|
| ★    | V1 Fluorescent tube  | AAV-020  |

SWITCH ASSEMBLY

SWITCH

| Mark | Symbol & Description       | Part No. |
|------|----------------------------|----------|
| ★★   | S1 Push switch (AC OUTLET) | ASG-318  |

8. FOR S/G TYPE

The DT-555/S/G type is the same as the DT-555/NEM type with the exception of the following sections.

| Mark | Symbol & Description             | Part No.   |              | Remarks |
|------|----------------------------------|------------|--------------|---------|
|      |                                  | DT-555/NEM | DT-555/S/G   |         |
| Δ    | Front panel assembly             | ANB1223    | ANB1224      |         |
| ★★   | AC power cord                    | ADG1021    | ADG-070      |         |
|      | FU1 Fuse (T2.5A/250V)            | AEK-403    | .....        |         |
|      | Packing case                     | AHD1478    | AHD1479      |         |
| Δ    | AC socket (AC OUTLET)            | AKP-026    | AKP-610      |         |
| Δ★★  | S9 Line voltage selector         | .....      | AKX-504      |         |
|      | Operating Instructions           | ARE1090    | .....        |         |
|      | (English/German/French/Italian)  |            |              |         |
|      | Operating Instructions (English) | .....      | ARB1123      |         |
| Δ★★  | Slide switch (POWER,S7)          | ASH-501    | .....        |         |
|      | Power transformer (AC220V)       | ATS-012    | .....        |         |
|      | Power transformer                | .....      | ATT-951      |         |
|      | (AC110V,120V,220V,240V)          |            |              |         |
|      | Timer assembly                   | GWX-895    | GWX-878      |         |
|      | Screw                            | .....      | VTZ30P100FZK |         |
|      | Sub panel                        | AAK1552    | AAK1553      |         |

The Timer assembly (GWX-878) is the same as the Timer assembly (GWX-895) with the exception of the following sections.

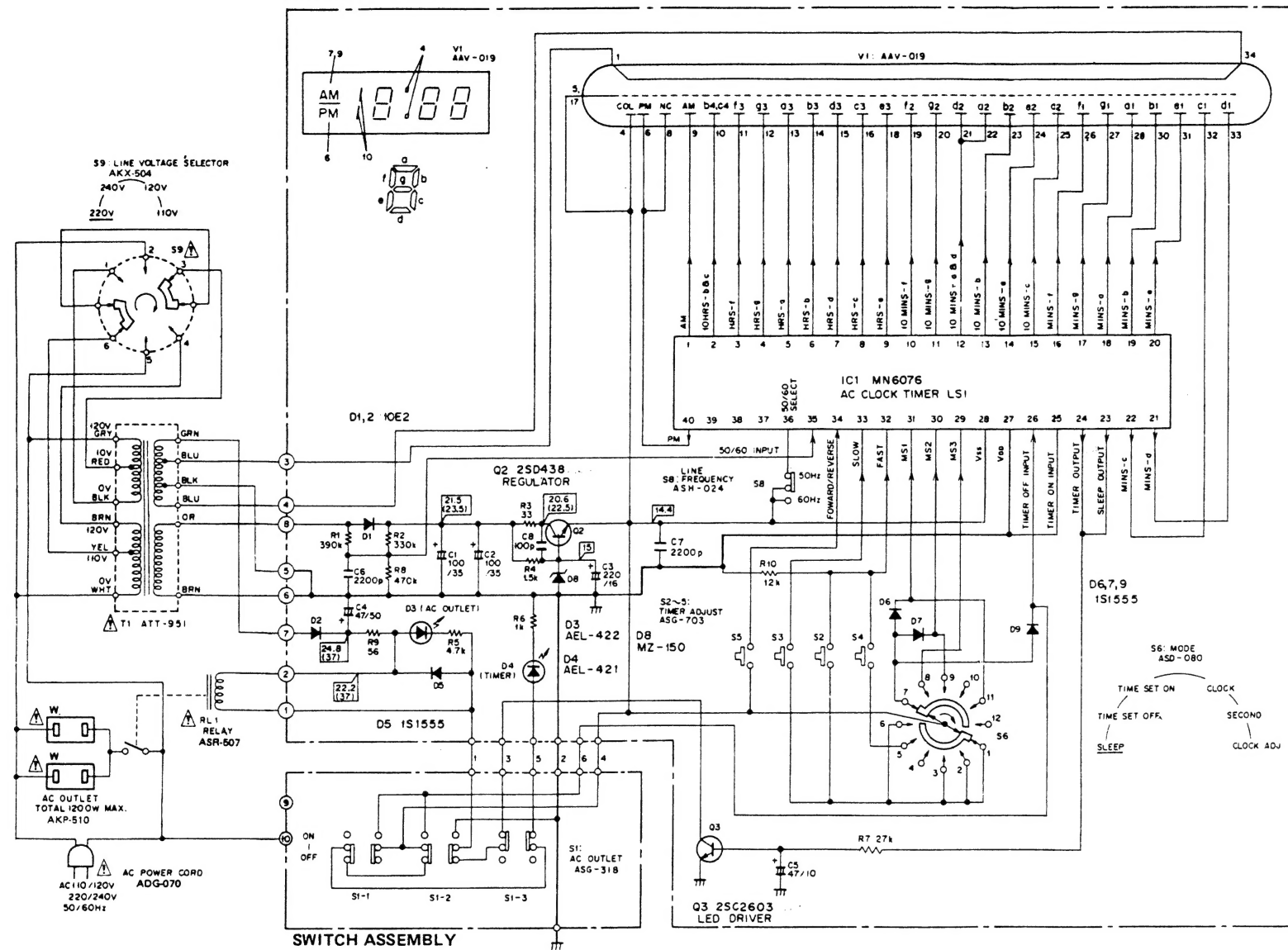
| Mark | Symbol & Description | Part No.      |             | Remarks |
|------|----------------------|---------------|-------------|---------|
|      |                      | GWX-895       | GWX-878     |         |
| ★★   | S8 Slide switch      | .....         | ASH-024     |         |
|      | R9 Resistor          | .....         | RD1/4PM560J |         |
|      | R3 Resistor          | RD1/4PMFL220J | RD1/4PM330J |         |
| ★    | V1 Fluorescent tube  | AAV-020       | AAV-019     |         |



• For S/G type

NOTE:  
The indicated semiconductors are representative ones only. Other alternative semiconductors may be used and are listed in the parts list.

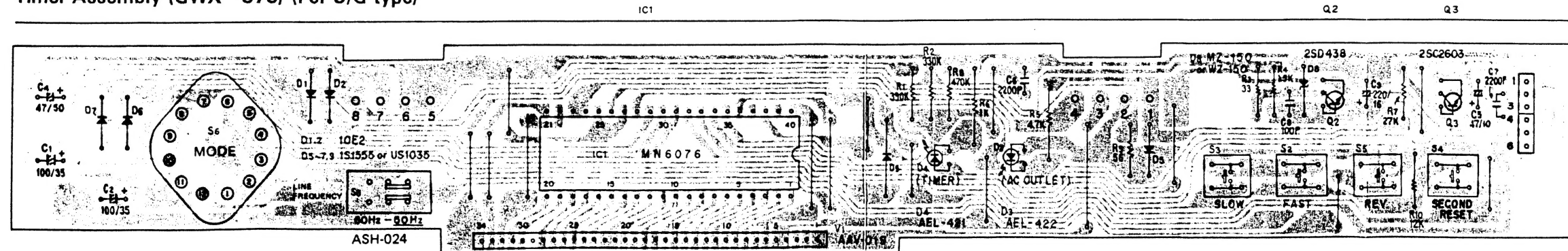
# TIMER ASSEMBLY (GWX-878)



1. RESISTORS:  
Indicated in  $\Omega$ ,  $\frac{1}{4}W$ ,  $\frac{1}{2}W$ ,  $\pm 5\%$  tolerance unless otherwise noted k; k $\Omega$ , M; M $\Omega$ , (F);  $\pm 1\%$ , (G);  $\pm 2\%$ , (K);  $\pm 10\%$ , (M);  $\pm 20\%$  tolerance
  2. CAPACITORS:  
Indicated in capacity ( $\mu F$ )/voltage (V) unless otherwise noted p; pF. Indication without voltage is 50V except electrolytic capacitor.
  3. VOLTAGE  
□: DC voltage (V) at TIMER, RELAY ON  
Value in ( ) is DC voltage at AC OUTLET OFF
  4. OTHERS:  
The  $\Delta$  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- SWITCHES:
- S1-1 AC OUTLET (OFF) ON - OFF
  - S1-2 AC OUTLET (ON) ON - OFF
  - S1-3 AC OUTLET (TIMER) ON - OFF
  - S2 TIME ADJUST (FAST) ON - OFF
  - S3 TIME ADJUST (SLOW) ON - OFF
  - S4 TIME ADJUST (SEC RESET) ON - OFF
  - S5 TIME ADJUST (REV) ON - OFF
  - S6 MODE  
SLEEP - TIMER SET OFF - TIMER SET ON -  
CLOCK - SECOND - CLOCK ADJUST
  - S8 LINE FREQUENCY 50Hz - 60Hz
  - S9 LINE VOLTAGE SELECTOR 110V - 120V - 220V - 240V
- The underlined indicates the switch position.

This is the basic schematic diagram, but the actual circuit may vary due to improvements in design.

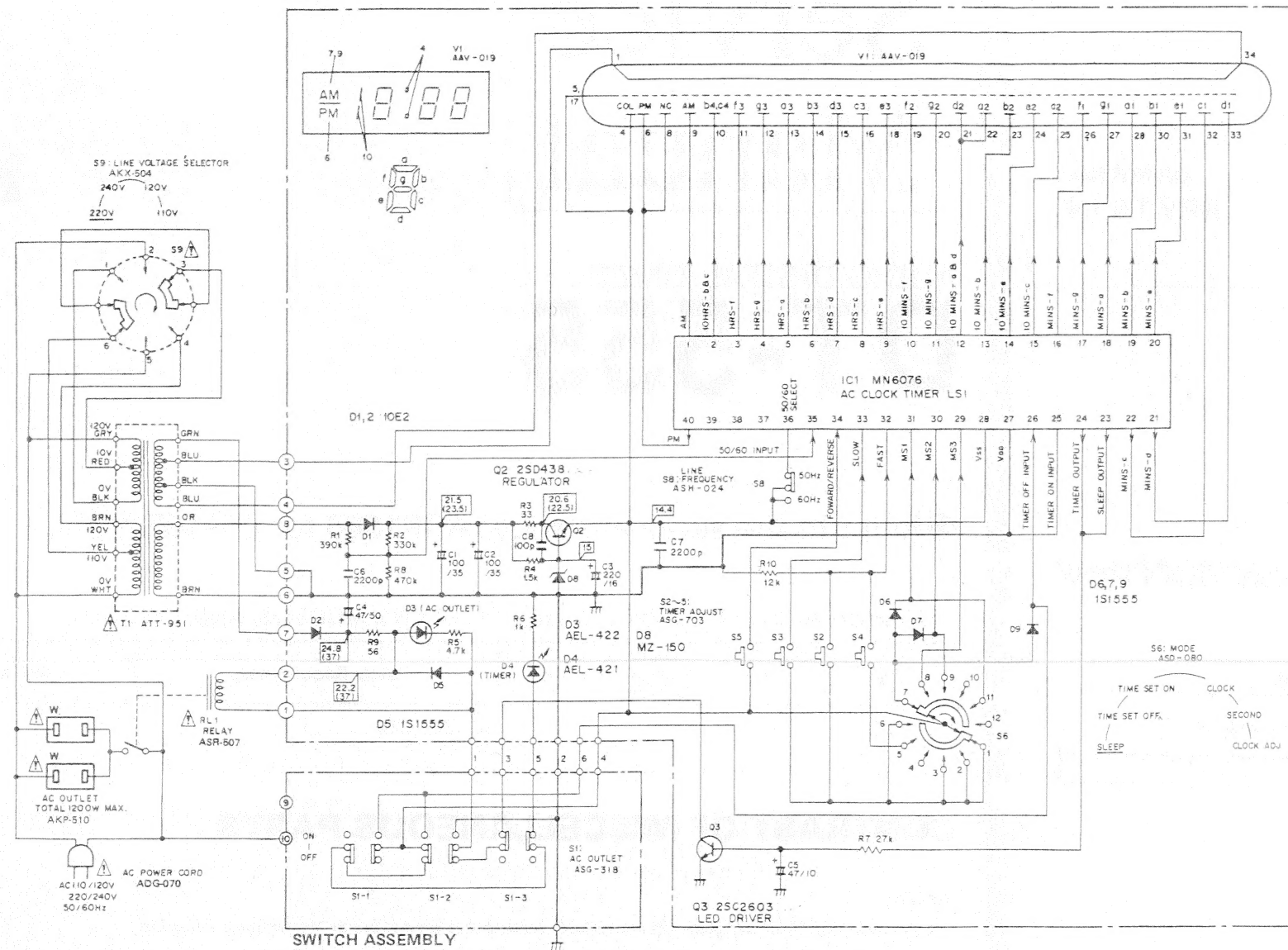
## Timer Assembly (GWX-878) (For S/G type)



• For S/G type

NOTE:  
The indicated semiconductors are representative ones only. Other alternative semiconductors may be used and are listed in the parts list.

## TIMER ASSEMBLY (GWX-878)



1. RESISTORS:  
Indicated in  $\Omega$ ,  $\frac{1}{4}W$ ,  $\frac{1}{2}W$ ,  $\pm 5\%$  tolerance unless otherwise noted k; k $\Omega$ , M; M $\Omega$ , (F);  $\pm 1\%$ , (G);  $\pm 2\%$ , (K);  $\pm 10\%$ , (M);  $\pm 20\%$  tolerance.

2. CAPACITORS:  
Indicated in capacity ( $\mu F$ )/voltage (V) unless otherwise noted p; pF. Indication without voltage is 50V except electrolytic capacitor.

3. VOLTAGE:  
□: DC voltage (V) at TIMER, RELAY ON  
Value in ( ) is DC voltage at AC OUTLET OFF

4. OTHERS:  
The  $\Delta$  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

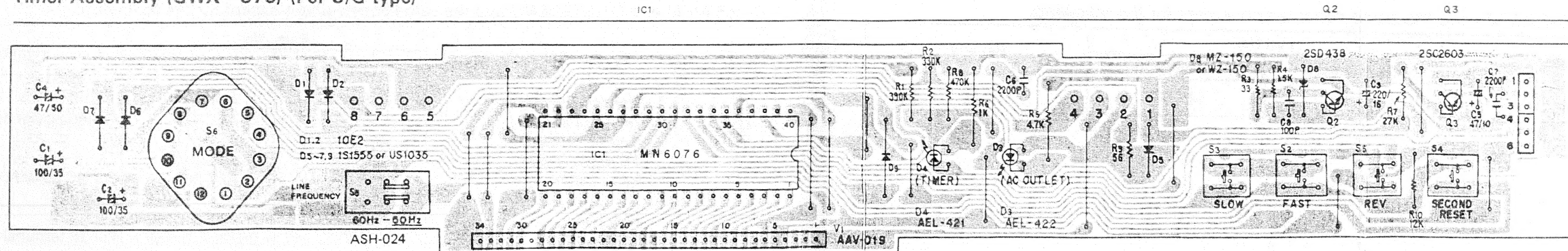
## SWITCHES:

S1-1: AC OUTLET (OFF) ON - OFF  
S1-2: AC OUTLET (ON) ON - OFF  
S1-3: AC OUTLET (TIMER) ON - OFF  
S2: TIME ADJUST (FAST) ON - OFF  
S3: TIME ADJUST (SLOW) ON - OFF  
S4: TIME ADJUST (SEC RESET) ON - OFF  
S5: TIME ADJUST (REV) ON - OFF  
S6: MODE  
SLEEP - TIMER SET OFF - TIMER SET ON -  
CLOCK - SECOND - CLOCK ADJUST  
S8: LINE FREQUENCY 50Hz - 60Hz  
S9: LINE VOLTAGE SELECTOR  
110V - 120V - 220V - 240V

The underlined indicates the switch position.

This is the basic schematic diagram, but the actual circuit may vary due to improvements in design.

## Timer Assembly (GWX-878) (For S/G type)





# Service Manual



ORDER NO.  
RRV 1 6 1 4

## AUDIO DIGITAL TIMER DT-555

- Refer to the service manuals **ARP2843** for DT-555/MEM and **ARP1566** for DT-555/NEM.

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

| Type | Model  | Power Requirement | Remarks |
|------|--------|-------------------|---------|
|      | DT-555 |                   |         |
| MEM8 | O      | AC220 - 230V      |         |

## CONTRAST OF MISCELLANEOUS PARTS

### NOTES:

- Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
- The  $\Delta$  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Parts marked by "●" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

DT-555/MEM8 and DT-555/MEM have the same construction except for the following:

| Mark | Symbol & Description | Part No.   |             | Remarks |
|------|----------------------|------------|-------------|---------|
|      |                      | DT-555/MEM | DT-555/MEM8 |         |
| NSP  | CE Mark Label        | Not used   | RRW1222     |         |

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# Service Manual

ORDER NO.  
ARP2843

## AUDIO DIGITAL TIMER DT-555

- Refer to the service manual ARP1566 for DT-555/NEM.

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

| Type | Model  | Power Requirement | Remarks |
|------|--------|-------------------|---------|
|      | DT-555 |                   |         |
| MEM  | O      | AC 220 - 230V     |         |

## CONTRAST OF MISCELLANEOUS PARTS

### NOTES:

- Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
- The  $\Delta$  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Parts marked by "●" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

DT-555/MEM and DT-555/NEM have the same construction except for the following:

| Mark     | Symbol & Description | Parts No.  |              | Remarks           |
|----------|----------------------|------------|--------------|-------------------|
|          |                      | DT-555/NEM | DT-555/MEM   |                   |
| $\Delta$ | T1 Power transformer | ATS-012    | ATT1248      | For AC power cord |
| $\Delta$ | 2P terminal          | .....      | AKC-071      |                   |
| $\Delta$ | F1 Fuse (2.5A 250V)  | AEK-403    | AEK-512      | For AC power cord |
| $\Delta$ | AC power cord        | ADG1021    | ADG1049      |                   |
|          | Strain relief        | .....      | AEC-882      |                   |
| NSP      | Rear panel Screw     | ANC1293    | ANC2210      | For 2P terminal   |
|          |                      | .....      | BBZ30P100FMC |                   |

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